

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#6 / Pre Ampt
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In re application of

Hans SIGRIST

Appln. No.: PCT/EP00/06513

Confirmation No.: NOT YET ASSIGNED

Group Art Unit: NOT YET ASSIGNED

Filed: January 15, 2002

Examiner: NOT YET ASSIGNED

For: BIOCHEMICAL SENSOR SYSTEM WITH INCREASED SENSITIVITY BY
MOLECULAR SIGNAL AMPLIFICATION

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please enter the following amended claims:

5. (Amended) Sensor system according to claim 3, characterised in that the enzyme is a DNA strand transferase, such as a transferase at end 3', or an RNA strand polymerase.

6. (Amended) Sensor system according to claim 3, characterised in that the biological entity is a peptide or a protein and in that the enzyme is a peptid synthetase.

8. (Amended) Sensor system according to claim 1, characterised in that the monomer compounds are selected from among nucleotides and oligonucleotides.

9. (Amended) Sensor system according to claim 1, characterised in that the sensor surface has a waveguide or waveguide gradient arrangement allowing optical detection of the

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